

(FDD 20644)

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W. Weiss 17 pp.

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CIA/FDD/U-57,5
SH A 62-10425

EEur - Germany
Sci - Physics, infrared

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Apr 54 CTS

Operation and Use of a Double X-Ray
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GERMAN, per, Z. fuer Angewandte Physik,
Vol V. No 6, 1953, pp 217-221.

CSIRO

Sci - Phys

Mar 62

189,505

Grids as Circuit Elements of Electric Waves in
Space, by Giswalt von Trentini, 31 pp. UNCLASSIFIED

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ARDC T-207⁶
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Baltimore, Md.)

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61A 2503791

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Sci -
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omitted) 17 refs.

Order from SLA \$2.60

62-10572

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DESCRIPTORS: *Magnets, Aging, Reliability.

(Physics--Magnetism, TT, v. 7, no. 9)

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Office of Technical Services

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Scientific - Physics

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EEur - Germany
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The Evaluation of Ionospheric Observations,
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sci/earth sci
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Effect During Intermittent Evaporation of the
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Vol VI No 4 1954 pp ~~XX~~ 154-156.

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by K.N.J. Rottgardt.

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*FTD-TT-65-1188

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Picatinny Arsenal
R-393-N

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E. Schopper, B. Schumacher, 4 pp.

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N.G.T.E. Tr OT/1443

Sci - Physics

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R-361-N

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Sci - Nuc Phys; Space Res

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SIA 57-3009

ATS/386-GJ

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Aug 56

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THE ELECTROSTATIC ATOMIZATION OF LIQUIDS.
Preliminary Report. [1962] 6p. (7 figs. omitted)
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Order from SLA \$1.10

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Trans. of Zeitschrift für Angewandte Physik (West
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DESCRIPTORS: *Electrostatics, *Atomization,
Liquids, *Organic compounds, Electron microscopy

The properties of various organic liquids are dis-
cussed with regard to the best atomization. It is shown
as to how the charged floating particles are applied to
model experiments on the electron motion, either in
the Braun's tube or in the electron microscope.
(Author)

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AEC SC-t-65-757

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Nov 65

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On Depolarization Effects in Polycrystalline
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July 68

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S.L.A. Tr 414/1956

Sci - ~~Radio~~ Physics

35575

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Order from SLA 81-10 62-16540

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DESCRIPTORS: *Steel, Machining, *Sparks, *Tempera-
ture, Grinders, Electron multipliers, Black-body
radiation, Thermal radiation, Measurement.

(Physics, TT, v. 9, no. 3)

Office of Technical Services

Imaging Of Molecular Specimens With the Field-
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Oct. 62

The Photoelectric Properties of Evaporated Cadmium
Sulfide Layers, by W. Veith.

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pp 1-7.

ATS 288-GJ

HTS-610736

Sci
Nov 59

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A New Method for the Determination of Magnetic-
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AEC SLAC-tr-21

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The Electron Avalanche and its Development into
the Self-sustained Discharge, by H. Raether, 25 pp

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SLA 3451

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CIA/FDD/U-7831

Sci - Physics, acoustics, physiological

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ACBIL Tr No 1251

Sci - Phys

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I. The Flow Properties of the Driving Jet and the Backing-Vacuum Critical Pressure, by Moller Hans-George, 36 pp.

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ABC/Wp Tr 238

Sci - Phys

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Vapour, and Pumping speed, by H. G. Moller, 13 pp.

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Sci - Phys
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Obtained Flow Diagrams, by Horst Kutscher. 20 pp.
GERMAN, per, Zeits. fur Angewandte Physik, Vol 7,
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OTS TT-59-19388

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Sci/Mechan, Indust, Civil
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Jun 67

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Results and Comparison With Flow Diagrams, by
Horst Kutscher, 15 pp.

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Sci - Phys

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62-18277

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Hübner, Hans-Joachim.
MEASUREMENT OF THE SURFACE TEMPERATURE
OF GLASSES WHICH HAVE BEEN HEATED BY RA-
DIATION. [1962] 24p. (figs. omitted) 9 refs.
Order from SLA \$2.60 62-18277

Trans. of Zeitschrift für Angewandte Physik (West
Germany) 1955, v. 7, no. 6, p. 273-279.

DESCRIPTORS: *Glass, *Surface temperatures, Meas-
urement, Heat, Thermal radiation, *Light globes,
Lighting equipment, Incandescent lamps, Heat transfer,
*Optical analysis, *Blackbody radiation, Reflection,
Thermionic emission.

For measurement of surface temperature (S. T.) of
glass bulbs in lighted electric lamps we have developed
an optical method which depends on comparison of the
spectral radiation density of the measured position on
the bulb and that of a black body of known temperature
(Materials--Ceramics, TT, v. 9, no. 3) (over)

Office of Technical Services

The Physical Processes in Diffusion- and and
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Theoretically Obtained Flow Diagrams, by Horst
Kutscher, 20 pp.

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ANG-MP-Tr-244

Sci - Phys
Sep 28 59

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Present Status of Photoelectric Research, by
Werner Kluge, 20 pp.

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pp 302-311.

AEC UCRL-Tr-570(L)

Sci - Phys
21 Feb 61

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Concerning Hardness of Glass Surface, by
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NTC 69-12534-11B

Sci-Mat
Aug 69

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Light Emission From High Vacuum Gas Discharges,
by K. H. Reiss

Vc/vii
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Scientific - Physics
Apr 56 CTS/dex

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Visual Displays of X-Ray Photographs Using a Television Camera Tube Which Responds to X-Rays, by M. Keller, M. Ploke, 18 pp.
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ATS-08Q70G

Sci-Phys
March 64

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NLL Ref: 9022.09 (4962)

Sci-Mat
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On the Mode of Operation of Voltage Dependent
Silicon Carbide Resistors, by K. Zuckler, 29 pp.

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pp 34-40.

SIA 57-3057

Sci

Aug 58

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A Simple Apparatus for Carrying out Nuclear
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16 pp.

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No 2, 1956, pp 61-69. CIA 9013958

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ACSI Tr 935

SLA 57-3213

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Sci - Physics
Jan 58

The Hyperbolic Field Tube: A Cathode Ray Tube
for Multiplication in Analogous Computers, by
W. Schmidt.

GERMAN, per, Z Angew Phys, Vol VIII, No 2, 1956,
pp 69-75.

RAE Farnborough Tr 646

Sci - Electronics
Nov 57

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Absorbers for Electromagnetic Centimeter Waves and
Their Acoustic Analogues, by Erwin Meyer, Hans Severin.

GERMAN, per, Z fuer Ange^lPhysik, Vol VIII, No 3, 1956,
pp 105-114.

*NRL Tr

Sci - Electron

Oct 57

A Relationship Between Hysteresis Coefficient
and Permeability, Part III, Ferrite Nuclei With
Rectangular Loop, Part IV, Influence of the
Coercive Force, by M. Kornetzki, 19 pp.

GERMAN, per, Z Angew Phys, Vol VIII, 1956,
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AEC/SCL Tx 139

Sci - Physics
Oct 57

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TT-64-15894

Leo, W.
CONCERNING THE QUESTION OF COMA ELIMINATION
IN SPECTROMETERS WITH SPECIAL CONCAVE
MIRRORS (Zur Frage der Koma-Behebung Bei Spektro-
metern mit Sphärischen Hohlspiegeln) J. M. Sprecher,
Zurich, Switzerland.
Order from GPO, SIA, or ETC \$2.60 TT-64-15894

Trans. of Zeitschrift für Angewandte Physik (West
German) 1955, v. 8, p. 186-201.

1. Leo, W.

(Physics--Spectroscopy, TT, v. 15894)

Office of Technical Services

Elimination of the Coma With Spectrometers Having
Spherical Concave Reflectors, by W. Leo.
GERMAN, per, Z fuer Angewandte Physik, Vol VIII,
No 4, 1956, pp 196-201.
CSIRO No 6450

Sci - ~~MR~~ Phys
Apr 64

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The Accurate Determination of Lattice Constants,
by H. Weyerer. UNCLASSIFIED

GERMAN, per, Z. Angew. Phys., Vol VIII, No 4,
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Jul 58

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On the Behaviour of AC Arcs in Vacuo,
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GERMAN, per, Z. fuer Angewandte Physik,
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ASLIB GB 10/TB 1538

Sci - Phys

Apr 62

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Dielectric Constant and Permeability of Artificial
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by E. Meyer, et al.

HECHTMAN, per, Z. fuer Angewandte Physik,
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Sci - Electron
Aug 62

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An X-Ray Flash Tube for the Production of X-Ray
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7 pp.

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Sci - Phys
Jun 63

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The Development of the Unfocused Secondary
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ATS-00L33G
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Determination of Slight Specific Activities of
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AEC Tr 3275

Sci - Phys

Sep 58

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Investigations of the Suitability of a Liquid Level
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GERMAN, per, Z. angew. Phys. Vol. 8, No. 7, 1956,
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CSIRO/ No. 7935

Sci -
Aug 67

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Broad-Band Resonance Absorber for Electromagnetic
Centimeter Waves, by J. H. Schmitt, 40 pp.

GERMAN, rer, Z. Angew Phys, Vol VIII, No 8, 1956,
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SLA 58-33

Sci

Jul 59

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The Contribution of Electrons to the Optical
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R. Wiesner, 15 pp. UNCLASSIFIED

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Sci - Phys
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Aug 58

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A Light Modulator for Operating Infra-Red
Receivers, by R. Kessler. CIA D 9010697

GERMAN, per, Zeit Fuer Angewandte Physik, Vol VIII,
No 8, 1956, pp 405, 406.

SLA 57-2387
A.C.S.I.L. Tr 978

Sci - Electronics
Jul 57

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On Breakdown Field Strength in Dielectric Liquids
of Different Molecular Compositions, by E. Musset,
A. Nikuradse, R. Ulbrich, 28 pp.

GERMAN, per, Z Angew Phys, Vol VIII, No 9, 1956,
pp 8-15.

SLA Tr 57-1399

Sci - Chemistry
Mar 58

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The Development of the Microbalance Since
1886, by K. Behrndt.

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*NASA TT R-11,159

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Sci-Phys

Sept 67

Limits of Accuracy of Linear Measurement by
Interferometry, by R. Langvehr.

GERMAN, per, Z Angew Physik, Vol VIII, No 11,
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Sci - Physics
Feb 58

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The Detectability of Faults in the Non-destructive Testing of Steel With High-energy X-Rays, by R. Schittenhelm.

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SLH 57-2210
T.I.L. Tr 4777

Sci - Min/met, physics 48, 845
Jun 57

The Influence of Boundary Sharpness and Contrast
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Special Reference to X-Ray Diagnosis, by R. Roehler.

GERMAN, per, Z fuer Angew Phys, Vol VIII, No 12,
1956, pp 577-580.

SLA 57-2812
T.I.L. Tr 4778

Sci - Physics
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An I-T-Diagram of Neon, by Werner Koeppe, 9 pp.
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National Bureau of Standards

Sci - Phys
Apr 58

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The Changes of Inductance by Dielectrics,
Particularly Plasmas, by Richard Seitner.
UNCLASSIFIED

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May 1964/EML 699

Sci - Electronics
Jan 59

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Sources of Shock-Sound, Bases and Analogy
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GERMAN, FER, Zeitschrift fuer Angewandte Physik,
Vol 9, No 3, 1957, pp 145-147.
SIA TT-66-10, 2

Sci-Phys
Jul 66

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The Determination of the Diffusion Length and
Carrier Density in the Inversion Layer From
the Forward Characters of Alloy Junction, by
A. Herlet.

GOVERNMENT USE ONLY

GERMAN, per, Zeitschrift fur Angewandte Physik,
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NASA TT F-11,849

AAEC Lit/TR-278

Sci
Dec 68

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Propagation of Slow Electro-magnetic Waves Along
Inhomogeneous Plasma Layers, by VVK Von W. Oehrl,
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GERMAN, per, Z. für Angewandte Physik, Vol. IX, No 4,
1957, pp 164-171. 9067850

AFCRL Res Lib
E-T-R-G-62-12

Sci - Phys
Nov 62

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Development of Luminescence Dosimeter for X-Rays, by
Hans-Ulrich Radke, 7 pp. UNCLASSIFIED

GERMAN, per, Zeit fur Angew Physik, Vol IX, No 4,
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Navy 2357/BRL 749

Sci - Physics
Nov 59

CIA/FDD X-3486

101, 414

An Outline of the Well Theory of the Magnetic
After-Effects of Impurity Atoms, by
F . Schreiber.

GERMAN, per, Z. fur Angewandte Physik, Vol IX,
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GB/48/591

Sci
Dec 62

The Formation of Self-Targets for the Reaction
 $D(d,n)He^3$ and Its Connection With the Problem of
Hydrogen Diffusion in Metals, by Klaus Fiebiger,
38 pp.

GERMAN, per, Z Angew Phys, Vol IX, 1957, pp 213-223.

AEC NP Tr 414

Sci - Phys
Jun 60

118,890

62-10238

Nonnenmacher, Walter and Schweizer, Lutz.
DETERMINATION OF THE PERMEABILITY OF
FERROMAGNETIC MATERIALS FROM THE
THERMAL NOISE VOLTAGE OF COILS. [1961] 14p.
8 refs.

Order from SLA \$1.60

62-10238

Trans. of Zeitschrift für Angewandte Physik (West
Germany) 1957, v. 9, no. 5, pp. 239-245.

DESCRIPTORS: *Ferromagnetic materials, Materials,
Permeability, Determination, Coils, Thermodynamics,
Noise, Voltage Ferromagnetism

Both components of the complex permeability of ferro-
magnetic materials can be measured as function of the
frequency without an alternating field from outside
having an influence on the testpiece during measure-
ments. To determine the permeability we are using
(Physics--Magnetism, TT, v. 7, no. 9) (over)

I. Nonnenmacher, W.
II. Schweizer, L.

Office of Technical Services

X-Ray Conductivity of Amorphous Selenium
Deposits, by R. Eppe.

GERMAN, per, Z. fuer Angewandte Physik,
Vol IX, No 6, 1957, pp 261-268. ~~NS~~

OSIRO

Sci - Phys
May 62

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The Propagation of Initiating Neutrons in a
Homogeneous Thermal Reactor, by K. H. Hocker,
F. Wagner, 13 pp.

GERMAN, Ger, Z Angew Phys, Vol IX, 1957,
pp 301-305.

AEC NP Tr 486

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Sci - Phys
Jun 60

The Importance Function in Reactor Kinetics, by
H. Gruzman, K. H. Hocker, 32 pp.

GERMAN, per, Z Angew Phys, Vol IX, 1957,
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AEC NP Tr 415

118,883

Sci - Phys
Jun 60

Chill Casting of Thin, Single Crystal Germanium
Plates, by Wolfram Rosenberg, 3 pp.

GERMAN, per, Z Angew Physik, Vol IX, No 7, 1957,
pp 347-349.

SLA 59-10741

Sci - Phys
Sep 59
Vol 2, No 1

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Natural Electrical Oscillations in the Earth-
Air Ionospheric Cavity Excited by Lightning
Discharges, by W. O. Schumann, 17 pp.

GERMAN, per, Z fuer Angew Phys, Vol IX, Munchen,
Aug 1957, pp 373-378.

NTIC F-TB-9960/V

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Ames memo. Sec (96955-7)
T-G-225- 94,581

Needle Counter for the Study of External Electrostatic
Fields, by B. Sudaak, 11 pp.

GERMAN, per, Zeit Angew Physik, Vol IX, No 8, 1957,
pp 404-407.

SIA 59-15023

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Vol 2, No 1

97908

Ballitis, Eduards.
THE SOUND IMPULSE OF A LIQUID SPARK.
[4 Dec 62] 12p. (figs. omitted) 15 refs.
Order from SLA \$1.60

63-10266

Trans. of Zeitschrift für Angewandte Physik (West
Germany) 1957, v. 9, no. 9, p. 429-434.

DESCRIPTORS: *Sparks, Liquids, *Sound transmission,
*Detonation waves, Measurement, *Piezoelectric
transducers, Electric discharges, *Underwater sound.

The sound waves which are produced by sparkover in
water are investigated by means of a piezoelectric
receiver. The properties of the receiving probe are
discussed. It could be shown that the electric voltage
in the piezocrystal caused by the sound wave is pro-
portional to the mean elastic strain inside the probe.
It was found that the pressure increase at the front of
(Physics--Acoustics, TT, v. 10, no. 2) (over)

63-10266

I. Ballitis, E.

TT-66-10703

Office of Technical Services

Hinkelmann, Hans.

APPARATUS FOR HIGH-SPEED RECORDING IN
OCEANOGRAPHY (Gerät zur Schnellregistrierung in
der Ozeanographie) tr. by D. A. Sinclair. 1963, 20p.
8 refs. NRCC Technical trans. 1062.
Order from NRCC \$1.00 NRCC C-4295

Trans. of Zeitschrift für Angewandte Physik
(West Germany) 1957, v. 9, no. 10, p. 505-513.

DESCRIPTORS: Oceanology, *Oceanographic equipment,
*Recording systems, Pressure, Temperature, Re-
sistance thermometers, Manometers, Oscillators,
Tests.

(Earth Sciences--Oceanography, TT, v. 9, no. 9)

65-12887

I. Hinkelmann, H.
II. NRCC TT-1062
III. NRCC C-4295
IV. National Research Council
of Canada

Office of Technical Services

62-10597

Kienlin, A.
MAGNETIC MATERIALS WITH PERMINVAR EFFECT.
PT. I. A CONTRIBUTION TO THE UNDERSTANDING
OF THE EFFECT AND ITS TEMPERATURE
DEPENDENCY. [1961] [19]p. (5 figs. omitted).
Order from SLA \$1.60 62-10597

Trans. of Zeitschrift für Angewandte Physik (West
Germany) 1957 [v. 9, no. 10] p. 520-[526].

DESCRIPTORS: *Magnetic materials, Magnetic effects,
Magnetism, Temperature.

The perminvar effect occurs in spontaneously mag-
netized materials in which the demagnetized state is a
particularly marked, stable state. A directional dis-
tribution of spontaneous magnetism existing in the ma-
terial may be stabilized by diffusion processes, in
particular by ordering processes, if the processes take
place below the Curie-temperature and have the effect
(Physics--Magnetism, TT, v. 8, no. 1) (over)

- I. Title: Perminvar
- I. Kienlin, A.
- II. Title: Contribution...

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61-18623

Geist, D. and Preuss, E.
ETCHING AND POLISHING OF GERMANIUM SUR-
FACES (Ätzen und Polieren von Germaniumoberflächen).
[1961] [22]p. (foreign text included) 8 refs.
Order from SLA \$2.60 61-18623

Trans. of Zeitschr[ift] f[ür] Angew[andte] Physik (West
Germany) 1957, v. 9, no. 10, p. 526-531.

DESCRIPTORS: *Photoengraving, *Germanium, *Sur-
faces, Lattices, Single crystals, Deformation, Plas-
ticity, Crystal structure, Dislocations.

(Physics--Solid State, TT, v. 6, no. 9)

I. Geist, D.
II. Preuss, E.

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62-16409

Joos, Peter.
THE MICROHARDNESS OF GLASS SURFACES
(Über die Mikrohärte von Glasoberflächen). [1962]
[20]p. (foreign text included) 26 refs.
Order from SLA \$1.60 62-16409

Trans. of Zeitschrift für Angewandte Physik (West
Germany) 1957, v. 9, no. 11, p. 556-561.

DESCRIPTORS: *Glass, *Hardness, *Microstructure,
*Deformation, Thickness, High temperature research,
*Vacuum furnaces, Water, Adsorption, Absorption,
Density, Plasticity.

(Materials--Ceramics, TT, v. 8, no. 7)

I. Joos, P.

Office of Technical Services

Microhardness Of Glass Surfaces by P. Joos.

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GERMAN, per, ~~vol IX, No 2, 1954~~, pp 556-561

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Görlich, P., Krohs, A. and others.
SERIALLY PRODUCED IMAGE TUBES AND
POSSIBILITY OF DEFINING THEIR BEAM AMPLI-
FICATION EFFECT. [1963] [18]p. 9 refs.
Order from SLA \$1.60 63-14683

Trans. of Zeitschrift für Angewandte Physik (West
Germany) 1957, v. 9, no. 11, p. 561-566.

DESCRIPTORS: *Image tubes, Beams (Electro-
magnetic), Amplifiers, Microscopy, Effectiveness,
Image intensifiers (Electronics), Optical equipment
components.

Image tubes of types BW 55, BW 55S and BW 30QS
developed for series production are discussed. In
order to define the image tubes as to their efficiency,
a definition is given of an image tube constant, the
amplification factor. The use of image tubes in
microscopy and voltage optics is described.
(Author)

63-14683

I. Görlich, P.
II. Krohs, A.

(Engineering--Electronic, TT,
v. 10, no. 4)
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Further Effective Cross-Sections in Collisions Between
Neutrons, by H. Pauly.
GERMAN, per, Z fuer Angewandte Physik, Vol IX,
1957, pp 600-606.
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PARTIAL PRESSURE ANALYSES OF THE FINAL
PRESSURE OF OIL DIFFUSION PUMPS BY THE
OMEGATRON, BY G. REICH, H. O. KOLLER,
15 PP.

GERMAN, PER, Z. FLIER ANGEN PHYSIK, VOL IX,
NO 12, 1957, PP 617-621. 908E396

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Theory of Interference Modulation for Two-
Beam Interference, by L. Genzel, R. Weber,
21 pp.

GERMAN, per, Z fuer Angewandte Physik,
Vol X, No 3, 1957, pp 127-135.

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Sci - Phys

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121, 330

Fractionation and Outgassing in Oil Diffusion Pumps, by W. Bachler.

GERMAN, per, Z. fuer Angewandte Physik, Vol XI, No 12, 1957, pp 6162-616.

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Multi-Circuit Resonance Absorbers for Electro-
magnetic Centimeter Waves, by H. J. Schmitt,
W. Puttermenger, 25 pp.

GERMAN, per, Z. Fuer Angewandte Physik, Vol X,
No 1, 1958, pp 1-7.

SLA-61-16423

Sci - Phys

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Pottel, Reinhard.

THE ABSORPTION OF ELECTROMAGNETIC CENTI-METER WAVES IN ARTIFICIALLY ANISOTROPIC MEDIA. [1961] 31p. 15 refs.
Order from SLA \$3.60

61-16098

Trans. of Zeitschrift für Angewandte Physik (West Germany) 1958, v. 10, no. 1, p. 8-16.

DESCRIPTORS: *Electromagnetic waves, Absorption, Ferromagnetic materials.

(Physics--Wave Propagation, TT, v. 6, no. 3)

61-16098

I. Pottel, R.

175235

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The Propagation of Electric Waves in a Magnetic Field
Along a Plasma Layer Bounded by a Dielectric,
by Winfried Otto Schumann, 16 pp.
GERMAN, per, Z fuer Angewandte Physik, Vol X, No 1,
1958, pp 26-31. 9695563
Amer Meteorol Soc
T-G-226

Sci - Elec
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Definition and Measurement Of Unsharpness In
X-ray Photographs by R. Rohler.

GERMAN, per, Zeitschrift Fur Angewandte Physik,
Vol X, No 1, 1958, pp 43-47

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An X-Band Spectrometer for
Detection of Paramagnetic Resonances,
by W. Stielor.
GERMAN, per, Zeit Angew Phys, Vol X,
No 2, 1958, pp 89-95.
NASA TT F-9710

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